業績目録（前川禎通）

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前川禎通教授業績目録

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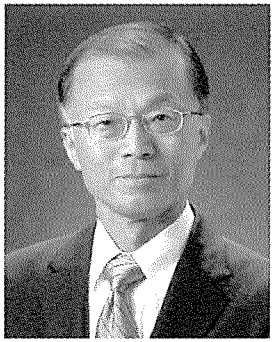

前 川 禎 通 教 授 略 歴

生年月日　昭和21年10月11日生
本 籍 地　奈良県
職　　名　教授
所　　属　金属材料研究所 金属物性論研究部門

最終学歴

昭和40年３月25日　大阪府立高津高等学校卒業
昭和44年３月25日　大阪大学理学部高分子学科卒業
昭和46年３月25日　大阪大学大学院理学研究科修士課程修了（無機及び物理化学専攻）

職　歴

昭和46年４月１日　東北大学助手（金属材料研究所）
昭和50年～51年　IBM ワトソン研究所研究員（米国）
昭和53年～60年　IBM ワトソン研究所客員研究員（米国）
昭和59年２月１日　東北大学助教授（金属材料研究所）
昭和59年　原子力研究所客員研究員（ユーリッヒ，ドイツ）
昭和63年４月１日　名古屋大学教授（工学部）
平成元年～２年　京都大学化学研究所客員教授
平成元年～２年　京都大学化学研究所客員教授
平成４年～７年　東京大学理学部中間子研究センター客員教授
平成８年～９年　東北大学金属材料研究所客員教授
平成９年４月１日　東北大学教授（金属材料研究所）
平成９年４月～平成13年３月　京都大学化学研究所客員教授
平成12年４月～平成16年３月　東京大学物性研究所諮問委員
平成13年～現在　マックスプランク研究所客員特別教授（ハレー，ドイツ）
平成14年４月～平成16年３月　東京工業大学応用セラミックス研究所 諮問委員

平成15年９月～平成17年８月　日本物理学会 理事
平成16年４月～平成20年３月　理化学研究所研究政策審議員
平成16年４月～平成20年３月　自然科学研究機構分子科学研究所諮問委員
平成18年４月～平成19年３月　金属材料研究所 材料科学国際フロンティアセンター長
平成18年10月～現在　計算材料学センター長
平成18年11月～平成20年10月　東北大学金属材料研究所 副所長
平成19年４月～現在　理化学研究所客員主管研究員
平成20年４月～現在　国際共同研究センター長
平成21年３月～現在　客員特別教授（浦項工科大学，韓国）
平成21年５月～現在　客員研究員（先端基礎研究センター，日本原子力研究開発機構）
平成22年３月　定年退職

学　位

昭和50年４月23日　理学博士（東北大学・物理学）

受　賞

平成11年４月１日　イギリス物理学会フェロー（英国）
平成13年３月30日　フンボルト賞（ドイツ）
平成15年９月17日　日本応用磁気学会賞
平成17年４月１日　本多プロフェッサー（金属材料研究所）
平成19年11月18日　アメリカ物理学会フェロー（米国）
平成20年４月１日　ディスティングイッシュト・プロフェッサー　（東北大学）

学会等における活動

- 独立行政法人 科学技術振興機構 領域アドバイザー（平成12年４月～平成20年３月）
- 理論物理学刊行会 理論物理学刊行会評議委員（平成15年８月～平成19年７月）
- 京都大学 基礎物理学研究所 運営委員会委員（平成15年８月～平成19年７月）
- 独立行政法人 理化学研所 研究政策審議会委員（平成16年４月～平成19年３月）
- 自然科学研究機構 分子科学研究所 運営会議運営会議委員（平成16年４月～平成20年３月）
- 青葉工学振興会 非常勤研究員（平成16年８月～平成19年３月）
- 大学共同利用機関法人 自然科学研究機構「最先端・高性能汎用スーパーコンピュータの開発利用」プロジェクト次世代ナノ総合シミュレーションソフトウェアの研究開発運営委員会委員（平成17年５月～平成19年３月）
- 日本学術会議 第17回磁性国際会議委員会委員（平成17年５月～平成20年３月）
- 日本学術会議 第17回磁性国際会議委員会 組織委員長（平成17年７月～平成20年３月）
- 大学共同利用機関法人 自然科学研究機構 分子科学研究所運営委員会委員（平成18年４月～平成20年３月）
- 東京大学物性研究所 スーパーコンピュータ共同利用課題審査委員会委員（平成18年４月～平成20年３月）
- 独立行政法人 科学技術振興機構「新しい物理現象や動作原理に基づくナノデバイス・システムの創製」領域アドバイザー（平成18年４月～平成20年３月）
- 科学技術振興機構 創造科学技術推進事業（ERATO）課題事後評価委員（平成18年８月～平成19年３月）

- 財団法人 国際超電導産業技術研究センター 新超電導物質探索調査委員会委員（平成18年9月～平成20年3月）
- 財団法人 稲盛財団 第23回京都賞 先端技術部門専門委員会委員（平成18年11月）
- 独立行政法人 理化学研究所 次世代計算科学研究開発運営委員会委員（平成19年1月～平成21年3月）
- 文部科学省研究振興局 科学技術・学術審議会専門委員（学術分科会）（平成17年2月～平成20年1月）
- 文部科学省研究振興局 科学技術・学術審議会学術分科会 科学研究費補助金審査部会委員（平成19年2月）
- 文部科学省研究振興局 科学技術・学術審議会 異常量子物質専門委員（平成19年2月）
- 独立行政法人 理化学研究所 次世代スーパーコンピューター開発戦略委員会アプリケーション検討部会委員（平成18年7月～現在）
- 財団法人 国際超電導産業技術研究センター 新超伝導物質探索調査委員会委員（平成19年4月～平成20年3月）
- 独立行政法人 理化学研究所 客員主管研究員（平成19年4月～平成21年3月）
- 財団法人 新世代研究所 評議員（平成19年4月～現在）
- 大学共同利用機関法人 自然科学研究機構分子科学研究所 次世代ナノ統合シミュレーションソフトウェアの研究開発 運営委員会委員（平成19年5月～平成20年3月）
- 日本学術会議 日本学術会議連携会員（平成19年7月～現在）
- 大学共同利用期間法人 自然科学研究機構 分子科学研究所の研究活動等に関する指導助言者（平成19年8月）
- 財団法人 青葉工学振興会非常勤研究員（平成19年8月～平成20年3月）
- 独立行政法人 日本学術振興会 科学研究費委員会専門委員（平成20年1月～平成20年12月）
- 大学共同利用機関法人 高エネルギー加速器研究機構 物質構造科学研究所ミュオン科学研究施設外部評価委員会委員（平成20年1月）
- 独立行政法人 大学評価・学位授与機構 国立大学教育研究評価委員会専門委員（平成20年2月～平成21年6月）
- 東京大学物性研究所 物性研究所付属物質設計評価施設 スーパーコンピュータ共同利用課題審査委員（平成20年4月～平成22年3月）
- 大学共同利用機関法人 自然科学研究機構分子科学研究所 次世代ナノ統合シミュレーションソフトウェアの研究開発 運営委員会委員（平成20年7月～平成21年3月）
- 独立行政法人 理化学研究所 戦略研究展開事業推進委員会委員（平成20年6月～平成22年5月）
- 文部科学省 文部科学大臣表彰審査委員会 若手科学者賞審査部会委員（平成20年10月～平成21年4月）
- 大阪府立大学テニュアトラック教員採用審査委員会委員（平成20年11月～平成22年3月）
- 独立行政法人 理化学研究所 次世代計算科学研究開発運営委員会委員（平成21年4月～平成22年3月）
- 財団法人 新世代研究所 「スピントロニクス研究会」委員長（平成21年4月～平成24年3月）

社会における活動

- 昭和63年～現在　Physica C（オランダ）編集委員
- 平成8年～平成11年　アメリカ物理学会誌「Physical Review Letters」分野別編集委員
- 平成11年～平成16年　科学技術補助金 特定領域研究「遷移金属酸化物における新奇な量子現

象」領域代表
- 平成13年10月1日～平成20年9月30日　国際純正及び応用物理学会（IUPAP）磁気コミッション（C9）副委員長（磁性国際会議2006組織委員長）
- 平成17年～平成20年12月　Journal of Magenetism and Magnetic Materials（オランダ）編集委員
- 平成17年5月1日～現在　アジアーパシフィック物性物理フォーラム 委員長
- 平成20年10月1日～現在　日本学術会議国際対応IUPAP分科会 委員長
- 平成20年10月1日～現在　日本学術会議連携会員
- 平成20年10月1日～現在　国際純正及び応用物理学会（IUPAP）副会長
- 平成20年10月1日～現在　国際純正及び応用物理学会（IUPAP）磁気コミッション（C9）委員長

業　績　目　録

Ⅰ．著書・編著（共著書等含む）

1. Physics of Magnetic Materials, eds. M. Takahashi, S. Maekawa, Y. Gondo and H. Nose, (World Scientific, 1987).

2. Superconductivity in Highly Correlated Fermion Systems, eds. M. Tachiki, Y. Muto and S. Maekawa, (North-Holland, Amsterdam, 1987).

3. Strong Correlation and Superconductivity, eds. H. Fukuyama, S. Maekawa and A. P. Malozemoff, (Springer-Verlag, 1989/11).

4. 高温超伝導 ― 物質，物性，理論，前川禎通，家　泰弘，十倉好紀，責任編集，（固体物理第25巻第10号，1990年）.

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11. 巨大磁気伝導の新展開，前川禎通，三浦　登，永長直人，十倉好紀責任編集，（固体物理 第32巻第４号，1997年）.

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Ⅱ. 研究論文

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2. M. Tachiki, Y. Yamada and S. Maekawa:
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31. Doping Dependence of Single-Particle Excitation Spectrum in High Tc Cuprates, Strongly Correlated Electrons Workshop, Tallahassee, U.S.A., March 12-14, 1998.

32. Spin Charge Separation of Electrons and High Temperature Superconductivity, Hayashibara Forum '98 -Progress and Challinge in Complexity-, Okayama, April 13-16, 1998.

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34. High Temperature Superconductors as a Member of Transition Metal Oxides, at Taniguchi Symposium on Physics and Chemistry of Transition Metal Oxides,Ise, May 25–30, 1998.

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36. First–order Transition between Two Ferromagnetic States in Magnetoresistive Manganites, Physics of Manganites Workshop Michigan State University, Michigan, USA, July 26–29, 1998.

37. Theory of electronic structure in high *Tc* cuprates and related compounds, First Euroconference on Anomalous Complex Superconductors, Crete, Greece, September 26–October 3, 1998.

38. Charge, Spin and Orbitals in Transition Metal Oxides, International Workshop on Electronic and magnetic properties of novel transition metal compounds from cuprates to titanates, Dresden, Germany, October 5–9, 1998.

39. Spin, Charge, Orbital and Qwasi–Particle Excitations in Strongly Correlated Electron Systems, 7tth NEC Symposium on Fundamental Approuches to New Materials Physics, Nasu, Japan, October 11–15, 1998.

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52. Resonant Inelastic X-Ray Scattering in Transition Metal Oxides, 2000 IIAS-JRCAT Workshop on Phase Control of Correlated Electron Systems, Kyoto, Japan, May 31- June 3, 2000.

53. Spin and Charge in Low Dimensional Cuprates, University of Cambridge, Isaac Newton Institute for Mathematical Sciences Seminar "Strongly Correlated Electron Systems, Cambridge, U.K., June 5 - June 9, 2000.

54. Spin-Charge Separation of Electrons in Strongly Correlated Electron Systems, International Symposium on Strong Correlations in Many-Body Systems, Nikko, Japan, June 26-30, 2000.

55. Spin-dependent Tunneling and Spin Injection, International Symposium on Spin-Electronics, Halle, Germany, July 3-6, 2000.

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59. Charge and Spin in Low-Dimensional Cuprates, 6th International Workshop on Chemical Designing and Processing of High-Tc Superconductors, Chem-HTSC VI, Yokohama, October 12-13, 2000.

60. Study of Orbital Ordering and Resonant X-Ray Scattering in Transition Metal Oxides, The First Korea-Japan Symposium on Strongly Correlated Electron Systems, Seoul, Korea, October 19-20, 2000.

61. Spin-polarized tunneling and spin injection in superconductor-ferromagnet junctions, The 8th NEC Symposium on Fundamental Approaches to New Material Phases "Spin-related Quantum Transport in Mesoscopic Systems, Nasu, Japan, October 22-26, Japan.

62. Dispersion of Mott Gap, Butsuko COE Symposium, Hayama, December 13-15, 2000.

63. Upper and Lower Hubbard Bands in High-Tc Cuprates, Third International Coference on New Theories, Discoveries and Applications of Superconductors and Related Materials (New^{3}SC-3), Hawaii, USA, January 15-19, 2001.

64. Mott Gap and its Unique Properties, Workshop "Chemical Physics of Emerging Materials, Schloss Ringberg, Germany, May 28-June 1, 2001.

65. Spin Injection into Superconductors and Spin-Charge Separation, JRCAT-CERC Workshop on Phase Control on Correlated Electron Systems, Hawaii, USA, June 6-9, 2001.

66. Theory of Ferromagnetic Point-Contacts, 4th International Symposium on Metallic Multilayers (MML'01), Aachen, Germany, June 24-29, 2001.

67. Mott Gap in Transition Metal Oxides, International Conference on Magnetic Correlations, Metal-Insulator Transitions and Superconductivity in Novel Materials, Dresden, Germany, July 16-20, 2001.

68. Mott Gap and Resonant Inelastic X-Ray Scattering in Transition Metal Oxides, International Workshop on Material Simulation, Shonan, Japan, November 7-10, 2001.

69. 高温超伝導体 — 中性子で明らかにされたユニークな磁性 —, 第一回中性子科学会, Sendai, Japan, December 6-7, 2001.

70. Spin Injection into Superconducting Nanostructures, Symposium on Spin-Dependent Transport in Magnetic Materials, Martin-Luther-Universität, Halle, Germany, December 10, 2001.

71. Excited states in high-Tc cuprates, NEDO Meeting, Woodside, California, USA, March 10,2002.

72. 高温超伝導研究の新展開, コメントとまとめ, 日本物理学会, Kusatsu, Japan, March 24-27, 2002.

73. Nonlinear optical response and spin-charge separation in Mott insulators, CERC-ERATO International Conference Hawaii, USA, May 22-25, 2002.

74. Electronic Excitations in Mott Insulators, International Workshop on Electronic structure of solids, Dresden, Germany, July 3-5, 2002.

75. Spin Injection into Magnetic Nanostructures, Workshop on Nanopatterned Magnetic Systems, Orsay, France, October 6-9, 2002

76. Electronic Excitations and Resonant Inelastic X-Ray Scattering in High-Tc Cuprates and Other Transition Metal Oxides, Symposium on Spin-Charge-Photon Coupled Systems, Tokyo, Japan, November 18-20, 2002.

77. Magnetoelectronics and Novel Magnetic Phenomena in Nanostructures, MRS Meeting, Boston, USA, December 1-5, 2002.

78. Theory of Resonant Inelastic X-Ray Scattering in High-Tc Cuprates and Other Transition Metal Oxides, IXS-CAT Workshop, Argonne, USA, January 27-28, 2003.

79. Effects of Orbitals in Transition Metal Oxides, Workshop on Orbital Ordering and Fluctuations in d- and f-electron Systems, Tokai, Japan, February 17-19, 2003.

80. Electronic Excitations in Cuprates, NEDO Meeting, Shanghai, China, April 2-5, 2003.

81. Charge Excitations in Mott Insulators, 7th International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors, Rio de Janeiro, Brazil, May 25-30, 2003.

82. Spin Dependant Transport in Magnetic Nanostructures (Plenary Talk), International Conference on Magnetism, Roma, Italy, July 27- Aug 1, 2003.

83. Elementary Excitations and their application in Strongly Correlated Electron Systems, Kaya Conference, Yatsugatake, Japan, August 20-23, 2003.

84. Electronic States in Cuprates and Cobaltates, International Advanced Research Workshop, Erice, Italy, October 4-10, 2003.

85. Spin Injection in Magnetic Nanohybrids, International Workshop on Nanoscale Magetoelectronics, Nagoya, Japan, November 25-27, 2003.

86. Mott Gap and Resonant Inelastic X- Ray Scattering in Transition Metal Oxides, JAERI International Workshop on X-Ray Scattering and Electronic Structure, Spring 8, Japan, December 11-12, 2003.

87. 相関化合物の電子構造と特異物性，東京工業大学応用セラミックス研究所講演会，Tokyo, Japan, February 3, 2004.

88. Perspective of Photoemission Spectroscopy, meeting of Physical Society of Japan, Kyusyu University, March 27-30, 2004.

89. Perspective of Spin Injection, Meeting of Physical Society of Japan, Kyusyu University, March 27-30, 2004.

90. Novel Phenomena Caused by Spin-Charge Separation, 2nd Asia-Pasific Physics Workshop, Hong Kong, China, June 21-24, 2004.

91. Spin Dependent Transport in Magnetic Nanostructures, Tohoku-Cambridge Forum, Cambridge, UK, June10-11, 2004.

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93. Electronic State and Superconductivity in Frustrated Lattices, Spectroscopies in Novel Superconductor 2004, Sitges, Spain, July 10-16, 2004.

94. New oxide-superconductors: Similarity and dissimilarity to HTSCs, the 20th General Conference of the Condensed Matter Division of the Europian Physical Society, Prague, Czech, July17-23, 2004.

95. Theory of RIXS in strongly correlated electron systems, Inelastic X-ray Scattering Argonne, USA, September 19-23, 2004.

96. Ferromagnetism and Superconductivity in Nanostructures, the Annual Meeting of the Physical Society of Japan, Aomori, Japan, September 12-15, 2004.

97. Kagome vs. Triangular Lattice in Cobaltates, 4th International Conference Stripe 04 Nanoscale Heterogenety & Quatum Phenomena In Complex Matter, Roma, Italy, September 26-29,2004.

98. Theory of RIXS in Strongly correlated Electron Systems, The 5th Korea-Japan-Taiwan Symposium on Strongly Correlated Electron Systems, Busan, Korea, December 10-11, 2004.

99. Concepts in Spin Electronics, Australia- Japan Workshop on Advanced Materials, Sydney, Australia, December5-7, 2004.

100. 強相関電子系の新展開 第17回佐々木学術シンポジウム 電子物性の新展開：ナノ構造，スピン，超伝導，Tokyo, Japan, December 22-23, 2004.

101. New formalism of domain wall dynamics, IMR-CNRS Thales meeting, France, Paris, March 22,2005.

102. 遷移金属酸化物の新しい物性，17回金研講習会 物質・材料若手学校，Sendai, Japan; March 3, 2005.

103. 磁性ナノ構造における電流誘起磁壁移動 まとめと展望，日本物理学会 第60回年次大会，Tokyo, Japan, March 27，2005.

104. Spin-Charge Separation in One-Dimensional Cuprates: Theory and ARPS Experiments, Strong Correlations and ARPES: Recent Progress in Theory and Experiment, Dresden, Germany, April 7, 2005.

105. Anomalous Electronic Lattices in Cobaltates, at Special focused session at the 81st Korean Physical Society Meeting, Seoul, Korea April 23, 2005.

106. Spin-Charge Separation in One-Dimensional Cuprates, 4th Asia-Pacific Workshop on Strongly Correlated Systems Novel Quantum Phenomena in Emergent Materials, Beijing, China, May 27, 2005.

107. Non-Local Spin Transport in Magnetic Nanostructures, 2005 CERC/ERATO-SSS International Workshop on Phase Control of Correlated Electron Systems, Maui, USA, June 9, 2005.

108. Progress Report of the Group of Nano-Electron Systems - Electronic States in Strongly Correlated Systems -, 1st NAREGI International Nanoscience Conference, Nara, Japan, Jume 17, 2005.

109. Spin-Charge Separation and Non-Linear Optical Response in One-Dimensional Cuprates, The European Conference PHYSICS OF MAGNETISM'05, Poznan, Poland, June 26, 2005.

110. Spin-Transfer Torque snd Domain Wall Motion in Magnetic Nanostructures, Croucher Advanced Study Institute-Scinence and Applications of Spin Electronics, Hong Kong, August 18, 2005.

111. Spinon and Holon Spectra in One-Dimensional Mott Insulators, INTERNATIONAL WORKSHOP ON Effective Models for Low — Dimensional Strongly Correlated Systems, Peyresq, France, September 13, 2005.

112. Spin-Transfer Torque, Modified Landan-Lifshitz-Gilbert Equation, and Spin-Motive-Force in Magnetic Nanostructures, at Spin-Dependent Transport through Nanostructures — Spintronics'05, Poznan, Poland, September 26, 2005.

113. Electronic and Transport Properties in Frustrated Correlated Lattices, Hvar 2005 Workshop on Correlated Thermoelectronic Materials, Hvar, Croatia September 29, 2005.

114. Non-Local and Quantum Spin Transport in Magnetic Nanostructures, 3rd THIOX Workshop, Zaragoza, Spain, November 18, 2005.

115. Magnetic and Electronic Properties in Frustrated Electron Systems, Workshop on Functional Oxides -Design and Control of Correlated Electrons for Device Applications, Waikoloa, USA, November 26, 2005.

116. Highlights and New Perspectives in Strongly Correlated Electronic Systems, CREST International Workshop, Tokyo, January 12, 2006.

117. The 10th APCTP Winter Workshop on Strongly Correlated Electron Systems, The 10th APCTP Winter Workshop on Strongly Correlated Electron Systems, Jeju, Korea, January 16, 2006.

118. Electric and Transport Properties in Frustrated Correlated Lattices, The 10th APCTP Winter Workshop on Strongly Correlated Electron Systems, Jeju, Korea, January 16, 2006.

119. Prospective on Spin Momentum Transfer, Spin Currents, San Jose, USA, March 18, 2006.

120. Spin Accumulation and Spin-Transfer Torque on Domain Walls in Nano-Wires, Fifth International Workshop on Surface, Interface and Thin Film Physics, (Shanghai, China), May.27-30, 2006.

121. Spin-Transfer Torque on Domain Walls in Magnetic Nanostructures, 11th International Ceramics Congress, (Sicily, Italy), June 9, 2006.

122. Theory of a qubit in Superconductor/Ferromagnet Hybrid Nanostructures, Nanoscale Superconductivity and Magnetism - NSM2006, (Leuven, Bergium) July 8, 2006

123. Anomalous Electronic Lattices in Cobaltates, Kyoto Conference on Solid State Chemistry, Kyoto, Japan, November14-18, 2006

124. Spin, charge, and orbital in transition metal oxides, Hong Kong Forum in Condensed Matter Physics: Past, Present, and Future, (Hong Kong, China) December 18-20, 2006.

125. Electronic properties in frustrated lattices with strong electron correlation, International Focus Workshop on Mobile Fermions and Bosons on Frustrated Lattices, Dresden, Germany, January 11-13, 2007.

126. Spin Current and Novel Phenomena in Ferromagnet/ Superconductor Nanohybrides, The 6th Asia-Pacific Workshop on Frontiers of Condenced-Matter Science and Symposium on 20-years Anniversary and Discovery of YBCO, Taiwan, April 13, 2007.

127. Correlation between Crystal Structure and High-Temprature Superconductivity, Stanford University, USA, April 25, 2007.

128. Correlation between Crystal Structure and High-Temprature Superconductivity, 1st Tohoku University International Forum, USA, 20070426, Non-Local Spin Transport in Magnetic Nanostructures, 2007CERC International Symposium, Tokyo, May 24, 2007.

129. ナノサイエンスとスピンエレクトロニクス，東北大学金属材料研究所所内講演会，May 25, 2007.

130. Charge Current vs. Spin Currents In Magneic Nanostructures, Centre for Advanced Study (CAS) at the Norwegian Academy of Science and Letters, Norway, June 1, 2007.

131. Charge Current vs. Spin Currents In Magneic Nanostructures, The Royal Institute of Technology, Sweden, June 6, 2007.

132. スピントロニクスの新展開 — スピン流によるナノエレクトロニクス —，新世代研究所 第14回研究報告，2007.06.11

133. ナノサイエンスとスピンエレクトロニクス，新世代研究所 理事会・評議会，June 15, 2007.

134. Charge Current vs. Spin Currents In Magneic Nanostructures, Universite de Geneve, Switzerland, June 25, 2007.

135. Spin Current and non-local spin Hall effect, Spinor 2007. Oslo, Norway, June 29, 2007.

136. Spin Current, Spin Accumulation and Spin Hall Effect, NIMS Conference on Recent Breakthroughs in Materials Science and Technology, July 12, 2007.

137. 量子モンテカルロ法による磁性半導体の電子状態の研究「次世代ナノ情報機能・材料」成果報告会，東京，July 13, 2007.

138. Spin Current-Charge Current conversion in Magnetic Nanostructures, The 3rd Taiwan International Conference on Spintronics, Taiwan, August 1, 2007.

139. Spin Current vs. Charge Current in Magnetic Nanostructures, Gordon Godfrey Workshop on Strong Electron Correlations, Australia, Sep 25, 2007.

140. Material Design of Magnetic Semiconductors, The International Worksohp on Electronic Structure in Correlated Materials, Chengdu, China, October 28, 2007.

141. Matieral Dependence of High-Tc Superconductivity, International Symposium on Lattice Effects in Cuprate High Temprature Superconductors, AIST, Tsukuba, November 2, 2007.

142. 次世代スーパーコンピュータとスピントロニクス，財団法人 新世代研究所合同研究会，長野，Novemver 8. 2007.

143. Spin Current vs. Charge Current in Magnetic Nanostructures, Yukawa International Seminar 2007, Kyoto, Novemver 20, 2007.

144. Spin Current, Spin Accumulation and Spin Hall Effect, 4th International Symposium on High Magnetic Field Spin Science in 100 T, Sendai, Novemver 27, 2007.

145. Materials Design of Magnetic Semiconductors, UK-Japan Workshop, Edinburgh, UK, December 12. 2007.

146. Matieral Dependence of High-Tc Superconductivity, Hong Kong Forum of Physics 2007-Frontiers in Condenced Matter, Hong Kong, China, December 14. 2007.

147. 量子モンテカルロ法による磁性半導体の物性探索，特定領域研究「異常量子物質の創製 — 新しい物理を生む新物質 —」成果報告会，名古屋，January 7, 2008.

148. Materials Design of Magnetic Semiconductors, JST Nano-Workshop on Physics of Spin Currents, January 10, 2008.

149. 電子内部自由度制御型ナノデバイス創製原理の構築，ＪＳＴナノバーチャルラボ成果報告会，横浜，January 11, 2008.

150. Spin Currents and Novel Phenomena in Ferromagnet/Superconductor Nano-Hybrides, ISTEC 研究会，東京，January 11, 2008.

151. Materials Design of Magnetic Semiconductors - Quantum Monte Carlo Study -, Spin Currents 2008, Sendai, February 18, 2008.

152. 磁性ナノ構造におけるスピン起電力，特定領域研究「スピン流」成果報告会，東京，February 27, 2008.

153. 次世代ナノ情報機能・材料 次世代ナノ電子材料活動報告，文部科学省最先端・高性能スパーコンピューターの開発利用プロジェクト 次世代ナノ統合シミュレーションソフトウェアの研究開発 第２回公開シンポジウム，岡崎，March 4, 2008.

154. Tunnel Magnetoresistance, Spin Accumulation, and Spin Hall Effect, American Physical Society March Meeting 2008, March 14, 2008.

155. 超伝導体中のスピン流，日本物理学会 第63回年次大会 近畿大学，March 23, 2008.

156. Quantum Spin Transport in Magnetic Nanostructures, AIST Worlkshop, AIST, Tsukuba, April 30, 2008.

157. Electromagnetic Effect of Spin Current, SpiNor 2008, The Norwegian Academy of Science and Letters, Oslo, Norway, May 15, 2008.

158. Tunnel Magnetoresistance (TMR) -Past, Present and Future-，東北大学名誉博士称号授与式・ノーベル賞受賞記念講演会，東北大学 片平さくらホール，仙台，May 27, 2008.

159. 電気の流れと磁気の流れの相互変換 — スピンホール効果と逆スピンホール効果 —，新生代研究所 第15回研究報告会，お茶ノ水セントラルビル カンファレンスルーム9，東京，June 2, 2008.

160. スピンエレクトロニクス — その基礎と応用の間で —，茅コンファレンス，秋葉原コンベンションホール，東京，June 11. 2008.

161. Spin Current, Spin Hall Effect and Spin Motive Force in Magnetic Nanostructures, Shanghai Workshop, Fudan Univ., Shanghai, China, June 17, 2008.

162. Ferromagnetic Josephson Resonance, WMSM08 & TICS08, The Huisun Forest Station National Chung Hsing Univ. Taiwan, July 8. 2008.

163. スピン起電力に対する数値解析，特定領域「スピン流」報告会，芝蘭会館 稲盛ホール，京都，July 8. 2008.

164. Spin Motive Force and Spin Hall Effect in Magnetic Nanostructures, Asia-Pacific Center for TheoreticalPhysics, Pohang University of Science and Technology (POSTECH), Korea, August 25, 2008.

165. Thermal Current, Spin Current and Charge Current in Strongly Correlated Materials, Hvar 2008 Conference on Concepts in Electron Correlation, Croatia, September 23, 2008.

166. Conservation Laws and Spin Motive Force in Magnetic Nanostructures, CNSI-Rice Workshop on Nanoelecronics, Spintronics and Photonics, Calfornia Nanosystems Institute, University of California, Santa Barbara, USA, October 9, 2008.

167. Spin Motive Force in Magnetic Nanostructures, 421st. Wilhelm and Else Heraeus Seminar on Spin Hall Effect, Physikzentrum, Bed Honeff, Germany, October 20, 2008.

168. Non-Local Spin Transport and Spin Motive Force in Magnetic Nanostructures, 53rd Annual Conference on Magnetism and Magnetic Materials, American Center for Physics, Austin, Taxes, USA, November 13, 2008.

169. Spin Current, Charge Current, Heat Current and Spin-Electronics, WPI Meeting, Tohoku University, Sendai, November 18, 2008.

170. Spin Current, Charge Current, Heat Current and Spin-Electronics, QPEC Workshop Koshiba Hall, Tokyo Univ., Tokyo, November 20, 2008.

171. Spin Current, Charge Current, Heat Current and Spin-Electronics, Center for Quantum Science and Engineering (CQSE) Opening Ceremony and Forum in Condensed Matter Science, International Auditorium, Dept. of Physics, National Taiwan Univ., Taipei, November 26, 2008.

172. New trend of condensed matter science in 21st Century, Center for Quantum Science and Engineering (CQSE) Opening Ceremony and Forum in Condensed Matter Science, InterNational Auditorium, Dept. of Physics, National Taiwan Univ., Taipei, November 26, 2008.

173. Spin Transport in Condensed Matter －Past Present and Future－, Spin Transport in Condensed Matter, Yukawa Institute for Theoretical Physics, Kyoto University, Kyoto, November 28, 2008.

174. Local Structure and Electronic States in Cuprates and Fe-Pnictides, A3 Foresight Program, Fudan Univ., Shanghai, December 8, 2008.

175. Possible d0-Ferromagnetism and the Electronic and Optical Properties - Quantum Monte Carlo Study-, 特定領域成果報告会, 東京大学 駒場キャンパス 東京, January 5, 2009.

176. 磁性ナノ構造における保存則とスピン起電力, 特定領域「スピン流の創出と制御」平成20年度成果報告会, ホテル岩沼屋, 宮城, January 7, 2009.

177. Spin Current, Charge Current, Heat Current and Spin-Electronics, Universite paris-Sud 11 (Ground Floor - North wing - Room 023), January 22, 2009.

178. Nano-Science and Spin Electronics (plenary talk), The 1st NanoSquare Workshop, Osaka Prefecture University, February 28, 2009.

179. Spin Current, Charge Current, Heat Current and Spin-Electronics, AIST-RIKEN Joint Workshop, March 7. 2009.

180. Spin Current, Charge Current, Heat Current and Spin-Electronics, 浦項大学 (POSTECH), Hyoja-dong, Nam-gu, Pohang, 790-784 Korea, March 23, 2009.

181. GMR（巨大磁気抵抗効果）からTMR（トンネル磁気抵抗効果）へ，日本物理学会，March 29, 2009.

182. Conservation Laws and Spin Motive Force in Magnetic Nanostructures, Spin Currents 2009, Fallen Leaf Lake, South Lake Tahoe,USA, April 18, 2009.

183. Spin Current, Charge Current, Heat Current and Spin-Electronics, IBM Collooquium, IBM Almaden Research Center, San Jose, USA, May 8, 2009.

184. Kondo Effect and Spin Hall Effect in AU Metals, The Peter Levy Symposium, Silver Center, New York, USA, May 15, 2009

185. スピン・電気・熱の相互変換 — 電磁気学の新たな発展に向けて —，ATI研究報告会 紫紺館3階S4会議室，東京，June 8, 2009.

186. Spin Current, Charge Current, Heat Current and Spin-Electronics, ICMAT 2009, Singapore, July 3, 2009.

187. Spin Hall Effect and Spin Seebeck Effect, APW-A3, Seoul, Korea, July 5, 2009.

188. Spin Injection and Accumulation, ICM 2009, Karlsluhe, Germany, July 28, 2009.

189. Materials Dependence of Electronic Properties in Transition Metal Superconducting Compounds, A3 Hokkaido Summer School, Rusutsu Resort, Hokkaido, Japan, August 8, 2009.

190. Ferromagnetic Josephson Junction and Spin Wave Resonance, NDSN2009, Nagoya University, September 5, 2009.

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